SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.
LAL, Preeti
HILLMAN, Jennifer L.
GORGONE, Gina
CORLEY, Neil C.
PATTERSON, Chandra
YUE, Henry
TANG, Y. Tom
AZIMZAI, Yalda

<120> HUMAN SOCS PROTEINS

<130> PF-0525 PCT

<140> To Be Assigned
<141> Herewith

<150> 60/087,104; 09/216,006
<151> 1998-05-28; 1998-12-17

<160> 18

<170> PERL Program

<210> 1
<211> 288
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1758450

<400> 1

```
Met Ser Ser Ser Met Trp Tyr Ile Met Gln Ser Ile Gln Ser Lys
 1               5                  10                  15
Tyr Ser Leu Ser Glu Arg Leu Ile Arg Thr Ile Ala Ala Ile Arg
            20                  25                  30
Ser Phe Pro His Asp Asn Val Glu Asp Leu Ile Arg Gly Gly Ala
        35                  40                  45
Asp Val Asn Cys Thr His Gly Thr Leu Lys Pro Leu His Cys Ala
    50                  55                  60
Cys Met Val Ser Asp Ala Asp Cys Val Glu Leu Leu Leu Glu Lys
65                  70                  75
Gly Ala Glu Val Asn Ala Leu Asp Gly Tyr Asn Arg Thr Ala Leu
                80                  85                  90
His Tyr Ala Ala Glu Lys Asp Glu Ala Cys Val Glu Val Leu Leu
            95                  100                 105
Glu Tyr Gly Ala Asn Pro Asn Ala Leu Asp Gly Asn Arg Asp Thr
        110                 115                 120
Pro Leu His Trp Ala Ala Phe Lys Asn Asn Ala Glu Cys Val Arg
    125                 130                 135
Ala Leu Leu Glu Ser Gly Ala Ser Val Asn Ala Leu Asp Tyr Asn
140                 145                 150
```

```
Asn Asp Thr Pro Leu Ser Trp Ala Ala Met Lys Gly Asn Leu Glu
                155                 160                 165
Ser Val Ser Ile Leu Leu Asp Tyr Gly Ala Glu Val Arg Val Ile
                170                 175                 180
Asn Leu Ile Gly Gln Thr Pro Ile Ser Arg Leu Val Ala Leu Leu
                185                 190                 195
Val Arg Gly Leu Gly Thr Glu Lys Glu Asp Ser Cys Phe Glu Leu
                200                 205                 210
Leu His Arg Ala Val Gly His Phe Glu Leu Arg Lys Asn Gly Thr
                215                 220                 225
Met Pro Arg Glu Val Ala Arg Asp Pro Gln Leu Cys Glu Lys Leu
                230                 235                 240
Thr Val Leu Cys Ser Ala Pro Gly Thr Leu Lys Thr Leu Ala Arg
                245                 250                 255
Tyr Ala Val Arg Arg Ser Leu Gly Leu Gln Tyr Leu Pro Asp Ala
                260                 265                 270
Val Lys Gly Leu Pro Leu Pro Ala Ser Leu Lys Glu Tyr Leu Leu
                275                 280                 285
Leu Leu Glu
```

<210> 2
<211> 423
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1834242

<400> 2

```
Met Lys Leu Thr Pro Arg Thr Ala Gly Arg Ala Trp Ala Gln Ser
  1               5                  10                  15
Arg Lys Gly Lys Arg Ser Ser Trp Gly Gly Thr Ala Ala Val Ala
                20                  25                  30
Glu Leu Lys Pro Gly Arg Pro His Gln Phe Asp Trp Lys Ser Ser
                35                  40                  45
Cys Glu Thr Trp Ser Val Ala Phe Ser Pro Asp Gly Ser Trp Phe
                50                  55                  60
Ala Trp Ser Gln Gly His Cys Ile Val Lys Leu Ile Pro Trp Pro
                65                  70                  75
Leu Glu Glu Gln Phe Ile Pro Lys Gly Phe Glu Ala Lys Ser Arg
                80                  85                  90
Ser Ser Lys Asn Glu Thr Lys Gly Arg Gly Ser Pro Lys Glu Lys
                95                 100                 105
Thr Leu Asp Cys Gly Gln Ile Val Trp Gly Leu Ala Phe Ser Pro
                110                 115                 120
Trp Pro Ser Pro Pro Ser Arg Lys Leu Trp Ala Arg His His Pro
                125                 130                 135
Gln Val Pro Asp Val Ser Cys Leu Val Leu Ala Thr Gly Leu Asn
                140                 145                 150
Asp Gly Gln Ile Lys Ile Trp Glu Val Gln Thr Gly Leu Leu Leu
                155                 160                 165
Leu Asn Leu Ser Gly His Gln Asp Val Val Arg Asp Leu Ser Phe
                170                 175                 180
```

```
Thr Pro Ser Gly Ser Leu Ile Leu Val Ser Ala Ser Arg Asp Lys
                185                 190                 195
Thr Leu Arg Ile Trp Asp Leu Asn Lys His Gly Lys Gln Ile Gln
                200                 205                 210
Val Leu Ser Gly His Leu Gln Trp Val Tyr Cys Cys Ser Ile Ser
                215                 220                 225
Pro Asp Cys Ser Met Leu Cys Ser Ala Ala Gly Glu Lys Ser Val
                230                 235                 240
Phe Leu Trp Ser Met Arg Ser Tyr Thr Leu Ile Arg Lys Leu Glu
                245                 250                 255
Gly His Gln Ser Ser Val Val Ser Cys Asp Phe Ser Pro Asp Ser
                260                 265                 270
Ala Leu Leu Val Thr Ala Ser Tyr Asp Thr Asn Val Ile Met Trp
                275                 280                 285
Asp Pro Tyr Thr Gly Glu Arg Leu Arg Ser Leu His His Thr Gln
                290                 295                 300
Val Asp Pro Ala Met Asp Asp Ser Asp Val His Ile Ser Ser Leu
                305                 310                 315
Arg Ser Val Cys Phe Ser Pro Glu Gly Leu Tyr Leu Ala Thr Val
                320                 325                 330
Ala Asp Asp Arg Leu Leu Arg Ile Trp Ala Leu Glu Leu Lys Thr
                335                 340                 345
Pro Ile Ala Phe Ala Pro Met Thr Asn Gly Leu Cys Cys Thr Phe
                350                 355                 360
Phe Pro His Gly Gly Val Ile Ala Thr Gly Thr Arg Asp Gly His
                365                 370                 375
Val Gln Phe Trp Thr Ala Pro Arg Val Leu Ser Ser Leu Lys His
                380                 385                 390
Leu Cys Arg Lys Ala Leu Arg Ser Phe Leu Thr Thr Tyr Gln Val
                395                 400                 405
Leu Ala Leu Pro Ile Pro Lys Lys Met Lys Glu Phe Leu Thr Tyr
                410                 415                 420
Arg Thr Phe
```

<210> 3
<211> 349
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1849725

<400> 3

```
Met Glu Asp Pro Gln Ser Lys Glu Pro Ala Gly Glu Ala Val Ala
  1               5                  10                  15
Pro Ala Leu Leu Glu Ser Pro Arg Pro Glu Gly Gly Glu Glu Pro
                20                  25                  30
Pro Arg Pro Ser Pro Glu Glu Thr Gln Gln Cys Lys Phe Asp Gly
                35                  40                  45
Gln Glu Thr Lys Gly Ser Lys Phe Ile Thr Ser Ser Ala Ser Asp
                50                  55                  60
Phe Ser Asp Pro Val Tyr Lys Glu Ile Ala Ile Thr Asn Gly Cys
                65                  70                  75
Ile Asn Arg Met Ser Lys Glu Glu Leu Arg Ala Lys Leu Ser Glu
```

```
                  80                  85                  90
Phe Lys Leu Glu Thr Arg Gly Val Lys Asp Val Leu Lys Lys Arg
                  95                 100                 105
Leu Lys Asn Tyr Tyr Lys Lys Gln Lys Leu Met Leu Lys Glu Ser
                 110                 115                 120
Asn Phe Ala Asp Ser Tyr Tyr Asp Tyr Ile Cys Ile Ile Asp Phe
                 125                 130                 135
Glu Ala Thr Cys Glu Glu Gly Asn Pro Pro Glu Phe Val His Glu
                 140                 145                 150
Ile Ile Glu Phe Pro Val Val Leu Leu Asn Thr His Thr Leu Glu
                 155                 160                 165
Ile Glu Asp Thr Phe Gln Gln Tyr Val Arg Pro Glu Ile Asn Thr
                 170                 175                 180
Gln Leu Ser Asp Phe Cys Ile Ser Leu Thr Gly Ile Thr Gln Asp
                 185                 190                 195
Gln Val Asp Arg Ala Asp Thr Phe Pro Gln Val Leu Lys Lys Val
                 200                 205                 210
Ile Asp Trp Met Lys Leu Lys Glu Leu Gly Thr Lys Tyr Lys Tyr
                 215                 220                 225
Ser Leu Leu Thr Asp Gly Ser Trp Asp Met Ser Lys Phe Leu Asn
                 230                 235                 240
Ile Gln Cys Gln Leu Ser Arg Leu Lys Tyr Pro Pro Phe Ala Lys
                 245                 250                 255
Lys Trp Ile Asn Ile Arg Lys Ser Tyr Gly Asn Phe Tyr Lys Val
                 260                 265                 270
Pro Arg Ser Gln Thr Lys Leu Thr Ile Met Leu Glu Lys Leu Gly
                 275                 280                 285
Met Asp Tyr Asp Gly Arg Pro His Cys Gly Leu Asp Asp Ser Lys
                 290                 295                 300
Asn Ile Ala Arg Ile Ala Val Arg Met Leu Gln Asp Gly Cys Glu
                 305                 310                 315
Leu Arg Ile Asn Glu Lys Met His Ala Gly Gln Leu Met Ser Val
                 320                 325                 330
Ser Ser Ser Leu Pro Ile Glu Gly Thr Pro Pro Pro Gln Met Pro
                 335                 340                 345
His Phe Arg Lys
```

<210> 4
<211> 355
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 2547840

<400> 4

```
Met Ala Arg Arg Pro Arg Asn Ser Arg Ala Trp His Phe Val Leu
  1               5                  10                  15
Ser Ala Ala Arg Arg Asp Ala Asp Ala Arg Ala Val Ala Leu Ala
                 20                  25                  30
Gly Ser Thr Asn Trp Gly Tyr Asp Ser Asp Gly Gln His Ser Asp
                 35                  40                  45
Ser Asp Ser Asp Pro Glu Tyr Ser Thr Leu Pro Pro Ser Ile Pro
```

```
                50                  55                  60
Ser Ala Val Pro Val Thr Gly Glu Ser Phe Cys Asp Cys Ala Gly
                65                  70                  75
Gln Ser Glu Ala Ser Phe Cys Ser Ser Leu His Ser Ala His Arg
                80                  85                  90
Gly Arg Asp Cys Arg Cys Gly Glu Glu Asp Glu Tyr Phe Asp Trp
                95                 100                 105
Val Trp Asp Asp Leu Asn Lys Ser Ser Ala Thr Leu Leu Ser Cys
               110                 115                 120
Asp Asn Arg Lys Val Ser Phe His Met Glu Tyr Ser Cys Gly Thr
               125                 130                 135
Ala Ala Ile Arg Gly Thr Lys Glu Leu Gly Glu Gly Gln His Phe
               140                 145                 150
Trp Glu Ile Lys Met Thr Ser Pro Val Tyr Gly Thr Asp Met Met
               155                 160                 165
Val Gly Ile Gly Thr Ser Asp Val Asp Leu Asp Lys Tyr Arg His
               170                 175                 180
Thr Phe Cys Ser Leu Leu Gly Arg Asp Glu Asp Ser Trp Gly Leu
               185                 190                 195
Ser Tyr Thr Gly Leu Leu His His Lys Gly Asp Lys Thr Ser Phe
               200                 205                 210
Ser Ser Arg Phe Gly Gln Gly Ser Ile Ile Gly Val His Leu Asp
               215                 220                 225
Thr Trp His Gly Thr Leu Thr Phe Phe Lys Asn Arg Lys Cys Ile
               230                 235                 240
Gly Val Ala Ala Thr Lys Leu Gln Asn Lys Arg Phe Tyr Pro Met
               245                 250                 255
Val Cys Ser Thr Ala Ala Arg Ser Ser Met Lys Val Thr Arg Ser
               260                 265                 270
Cys Ala Ser Ala Thr Ser Leu Gln Tyr Leu Cys Cys His Arg Leu
               275                 280                 285
Arg Gln Leu Arg Pro Asp Ser Gly Asp Thr Leu Glu Gly Leu Pro
               290                 295                 300
Leu Pro Pro Gly Leu Lys Gln Val Leu His Asn Lys Leu Gly Trp
               305                 310                 315
Val Leu Ser Met Ser Cys Ser Arg Arg Lys Ala Pro Val Ser Asp
               320                 325                 330
Pro Gln Ala Ala Thr Ser Ala His Pro Ser Ser Arg Glu Pro Arg
               335                 340                 345
Pro Cys Gln Arg Lys Arg Cys Arg Arg Thr
               350                 355
```

<210> 5
<211> 421
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 3071986

<400> 5

```
Met Ala Ser Phe Pro Pro Arg Val Asn Glu Lys Glu Ile Val Arg
  1               5                  10                  15
```

Leu Arg Thr Ile Gly Glu Leu Leu Ala Pro Ala Ala Pro Phe Asp
20 25 30
Lys Lys Cys Gly Arg Glu Asn Trp Thr Val Ala Phe Ala Pro Asp
35 40 45
Gly Ser Tyr Phe Ala Trp Ser Gln Gly His Arg Thr Val Lys Leu
50 55 60
Val Pro Trp Ser Gln Cys Leu Gln Asn Phe Leu Leu His Gly Thr
65 70 75
Lys Asn Val Thr Asn Ser Ser Ser Leu Arg Leu Pro Arg Gln Asn
80 85 90
Ser Asp Gly Gly Gln Lys Asn Lys Pro Arg Glu His Ile Ile Asp
95 100 105
Cys Gly Asp Ile Val Trp Ser Leu Ala Phe Gly Ser Ser Val Pro
110 115 120
Glu Lys Gln Ser Arg Cys Val Asn Ile Glu Trp His Arg Phe Arg
125 130 135
Phe Gly Gln Asp Gln Leu Leu Leu Ala Thr Gly Leu Asn Asn Gly
140 145 150
Arg Ile Lys Ile Trp Asp Val Tyr Thr Gly Lys Leu Leu Leu Asn
155 160 165
Leu Val Asp His Thr Glu Val Val Arg Asp Leu Thr Phe Ala Pro
170 175 180
Asp Gly Ser Leu Ile Leu Val Ser Ala Ser Arg Asp Lys Thr Leu
185 190 195
Arg Val Trp Asp Leu Lys Asp Asp Gly Asn Met Met Lys Val Leu
200 205 210
Arg Gly His Gln Asn Trp Val Tyr Ser Cys Ala Phe Ser Pro Asp
215 220 225
Ser Ser Met Leu Cys Ser Val Gly Ala Ser Lys Ala Val Phe Leu
230 235 240
Trp Asn Met Asp Lys Tyr Thr Met Ile Arg Lys Leu Glu Gly His
245 250 255
His His Asp Val Val Ala Cys Asp Phe Ser Pro Asp Gly Ala Leu
260 265 270
Leu Ala Thr Ala Ser Tyr Asp Thr Arg Val Tyr Ile Trp Asp Pro
275 280 285
His Asn Gly Asp Ile Leu Met Glu Phe Gly His Leu Phe Pro Pro
290 295 300
Pro Thr Pro Ile Phe Ala Gly Gly Ala Asn Asp Arg Trp Val Arg
305 310 315
Ser Val Ser Phe Ser His Asp Gly Leu His Val Ala Ser Leu Ala
320 325 330
Asp Asp Lys Met Val Arg Phe Trp Arg Ile Asp Glu Asp Tyr Pro
335 340 345
Val Gln Val Ala Pro Leu Ser Asn Gly Leu Cys Cys Ala Phe Ser
350 355 360
Thr Asp Gly Ser Val Leu Ala Ala Gly Thr His Asp Gly Ser Val
365 370 375
Tyr Phe Trp Ala Thr Pro Arg Gln Val Pro Ser Leu Gln His Leu
380 385 390
Cys Arg Met Ser Ile Arg Arg Val Met Pro Thr Gln Glu Val Gln
395 400 405
Glu Leu Pro Ile Pro Ser Lys Leu Leu Glu Phe Leu Ser Tyr Arg
410 415 420
Ile

<210> 6
<211> 278
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 3484619

<400> 6
Met Glu Pro Arg Ala Ala Asp Gly Cys Phe Leu Gly Asp Val Gly
1 5 10 15
Phe Trp Val Glu Arg Thr Pro Val His Glu Ala Ala Gln Arg Gly
20 25 30
Glu Ser Leu Gln Leu Gln Gln Leu Ile Glu Ser Gly Ala Cys Val
35 40 45
Asn Gln Val Thr Val Asp Ser Ile Thr Pro Leu His Ala Ala Ser
50 55 60
Leu Gln Gly Gln Ala Arg Cys Val Gln Leu Leu Leu Ala Ala Gly
65 70 75
Ala Gln Val Asp Ala Arg Asn Ile Asp Gly Ser Thr Pro Leu Cys
80 85 90
Asp Ala Cys Ala Ser Gly Ser Ile Glu Cys Val Lys Leu Leu Leu
95 100 105
Ser Tyr Gly Ala Lys Val Asn Pro Pro Leu Tyr Thr Ala Ser Pro
110 115 120
Leu His Glu Ala Cys Met Ser Gly Ser Ser Glu Cys Val Arg Leu
125 130 135
Leu Ile Asp Val Gly Ala Asn Leu Glu Ala His Asp Cys His Phe
140 145 150
Gly Thr Pro Leu His Val Ala Cys Ala Arg Glu His Leu Asp Cys
155 160 165
Val Lys Val Leu Leu Asn Ala Gly Ala Asn Val Asn Ala Ala Lys
170 175 180
Leu His Glu Thr Ala Leu His His Ala Ala Lys Val Lys Asn Val
185 190 195
Asp Leu Ile Glu Met Leu Ile Glu Phe Gly Gly Asn Ile Tyr Ala
200 205 210
Arg Asp Asn Arg Gly Lys Lys Pro Ser Asp Tyr Thr Trp Ser Ser
215 220 225
Ser Ala Pro Ala Lys Cys Phe Glu Tyr Tyr Glu Lys Thr Pro Leu
230 235 240
Thr Leu Ser Gln Leu Cys Arg Val Asn Leu Arg Lys Ala Thr Gly
245 250 255
Val Arg Gly Leu Glu Lys Ile Ala Lys Leu Asn Ile Pro Pro Arg
260 265 270
Leu Ile Asp Tyr Leu Ser Tyr Asn
275

<210> 7
<211> 281
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1275743

<400> 7
Met Gly Ser Gln Gly Ser Pro Val Lys Ser Tyr Asp Tyr Leu Leu
1 5 10 15
Lys Phe Leu Leu Val Gly Asp Ser Asp Val Gly Lys Gly Glu Ile
20 25 30
Leu Glu Ser Leu Gln Asp Gly Ala Ala Glu Ser Pro Tyr Ala Tyr
35 40 45
Ser Asn Gly Ile Asp Tyr Lys Thr Thr Thr Ile Leu Leu Asp Gly
50 55 60
Arg Arg Val Lys Leu Glu Leu Trp Asp Thr Ser Gly Gln Gly Arg
65 70 75
Phe Cys Thr Ile Phe Arg Ser Tyr Ser Arg Gly Ala Gln Gly Ile
80 85 90
Leu Leu Val Tyr Asp Ile Thr Asn Arg Trp Ser Phe Asp Gly Ile
95 100 105
Asp Arg Trp Ile Lys Glu Ile Asp Glu His Ala Pro Gly Val Pro
110 115 120
Arg Ile Leu Val Gly Asn Arg Leu His Leu Ala Phe Lys Arg Gln
125 130 135
Val Pro Thr Glu Gln Ala Arg Ala Tyr Ala Glu Lys Asn Cys Met
140 145 150
Thr Phe Phe Glu Val Ser Pro Leu Cys Asn Phe Asn Val Ile Glu
155 160 165
Ser Phe Thr Glu Leu Ser Arg Ile Val Leu Met Arg His Gly Met
170 175 180
Glu Lys Ile Trp Arg Pro Asn Arg Val Phe Ser Leu Gln Asp Leu
185 190 195
Cys Cys Arg Ala Ile Val Ser Cys Thr Pro Val His Leu Ile Asp
200 205 210
Lys Leu Pro Leu Pro Val Thr Ile Lys Ser His Leu Lys Ser Phe
215 220 225
Ser Met Ala Asn Gly Met Asn Ala Val Met Met His Gly Arg Ser
230 235 240
Tyr Ser Leu Ala Ser Gly Ala Gly Gly Gly Gly Ser Lys Gly Asn
245 250 255
Ser Leu Lys Arg Ser Lys Ser Ile Arg Pro Pro Gln Ser Pro Pro
260 265 270
Gln Asn Cys Ser Arg Ser Asn Cys Lys Ile Ser
275 280

<210> 8
<211> 635
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1722533

<400> 8
Met Ala Thr Gln Ile Ser Thr Arg Gly Ser Gln Cys Thr Ile Gly
1 5 10 15

```
Gln Glu Glu Tyr Ser Leu Tyr Ser Ser Leu Ser Glu Asp Glu Leu
                20                  25                  30
Val Gln Met Ala Ile Glu Gln Ser Leu Ala Asp Lys Thr Arg Gly
                35                  40                  45
Pro Thr Thr Ala Glu Ala Thr Ala Ser Ala Cys Thr Asn Arg Gln
                50                  55                  60
Pro Ala His Phe Tyr Pro Trp Thr Arg Ser Thr Ala Pro Pro Glu
                65                  70                  75
Ser Ser Pro Ala Arg Ala Pro Met Gly Leu Phe Gln Gly Val Met
                80                  85                  90
Gln Lys Tyr Ser Ser Ser Leu Phe Lys Thr Ser Gln Leu Ala Pro
                95                 100                 105
Ala Asp Pro Leu Ile Lys Ala Ile Lys Asp Gly Asp Glu Glu Ala
               110                 115                 120
Leu Lys Thr Met Ile Lys Glu Gly Lys Asn Leu Ala Glu Pro Asn
               125                 130                 135
Lys Glu Gly Trp Leu Pro Leu His Glu Ala Ala Tyr Tyr Gly Gln
               140                 145                 150
Val Gly Cys Leu Lys Val Leu Gln Arg Ala Tyr Pro Gly Thr Ile
               155                 160                 165
Asp Gln Arg Thr Leu Gln Glu Glu Thr Ala Val Tyr Leu Ala Thr
               170                 175                 180
Cys Arg Gly His Leu Asp Cys Leu Leu Ser Leu Leu Gln Ala Gly
               185                 190                 195
Ala Glu Pro Asp Ile Ser Asn Lys Ser Arg Glu Thr Pro Leu Tyr
               200                 205                 210
Lys Ala Cys Glu Arg Lys Asn Ala Glu Ala Val Lys Ile Leu Val
               215                 220                 225
Gln His Asn Ala Asp Thr Asn His Arg Cys Asn Arg Gly Trp Thr
               230                 235                 240
Ala Leu His Glu Ser Val Ser Arg Asn Asp Leu Glu Val Met Gln
               245                 250                 255
Ile Leu Val Ser Gly Gly Ala Lys Val Glu Ser Lys Asn Ala Tyr
               260                 265                 270
Gly Ile Thr Pro Leu Phe Val Ala Ala Gln Ser Gly Gln Leu Glu
               275                 280                 285
Ala Leu Arg Phe Leu Ala Lys Tyr Gly Ala Asp Ile Asn Thr Gln
               290                 295                 300
Ala Ser Asp Asn Ala Ser Ala Leu Tyr Glu Ala Cys Lys Asn Glu
               305                 310                 315
His Glu Glu Val Val Glu Phe Leu Leu Ser Gln Gly Ala Asp Ala
               320                 325                 330
Asn Lys Thr Asn Lys Asp Gly Leu Leu Pro Leu His Ile Ala Ser
               335                 340                 345
Lys Lys Gly Asn Tyr Arg Ile Val Gln Met Leu Leu Pro Val Thr
               350                 355                 360
Ser Arg Thr Arg Ile Arg Arg Ser Gly Val Ser Pro Leu His Leu
               365                 370                 375
Ala Ala Glu Arg Asn His Asp Glu Val Leu Glu Ala Leu Leu Ser
               380                 385                 390
Ala Arg Phe Asp Val Asn Thr Pro Leu Ala Pro Glu Arg Ala Arg
               395                 400                 405
Leu Tyr Glu Asp Arg Arg Thr Ser Ala Leu Tyr Phe Ala Val Val
               410                 415                 420
Asn Asn Asn Val Tyr Ala Thr Glu Leu Leu Leu Gln His Gly Ala
               425                 430                 435
Asp Pro Asn Arg Asp Val Ile Ser Pro Leu Leu Val Ala Ile Arg
```

```
                440                 445                 450
His Gly Cys Leu Arg Thr Met Gln Leu Leu Leu Asp His Gly Ala
                455                 460                 465
Asn Ile Asp Ala Tyr Ile Ala Thr His Pro Thr Ala Phe Pro Ala
                470                 475                 480
Thr Ile Met Phe Ala Met Lys Cys Leu Ser Leu Leu Lys Phe Leu
                485                 490                 495
Met Asp Leu Gly Cys Asp Gly Glu Pro Cys Phe Ser Cys Leu Tyr
                500                 505                 510
Gly Asn Gly Pro His Pro Pro Ala Pro Gln Pro Ser Ser Arg Phe
                515                 520                 525
Asn Asp Ala Pro Ala Ala Asp Lys Glu Pro Ser Val Val Gln Phe
                530                 535                 540
Cys Glu Phe Val Ser Ala Pro Glu Val Ser Arg Trp Ala Gly Pro
                545                 550                 555
Ile Ile Asp Val Leu Leu Asp Tyr Val Gly Asn Val Gln Leu Cys
                560                 565                 570
Ser Arg Leu Lys Glu His Ile Asp Ser Phe Glu Asp Trp Ala Val
                575                 580                 585
Ile Lys Glu Lys Ala Glu Pro Pro Arg Pro Leu Ala His Leu Cys
                590                 595                 600
Arg Leu Arg Val Arg Lys Ala Ile Gly Lys Tyr Arg Ile Lys Leu
                605                 610                 615
Leu Asp Thr Leu Pro Leu Pro Gly Arg Leu Ile Arg Tyr Leu Lys
                620                 625                 630
Tyr Glu Asn Thr Gln
                635
```

<210> 9
<211> 518
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1759763

<400> 9

```
Met Asp Phe Thr Glu Ala Tyr Ala Asp Thr Cys Ser Thr Val Gly
  1               5                  10                  15
Leu Ala Ala Arg Glu Gly Asn Val Lys Val Leu Arg Lys Leu Leu
             20                  25                  30
Lys Lys Gly Arg Ser Val Asp Val Ala Asp Asn Arg Gly Trp Met
             35                  40                  45
Pro Ile His Glu Ala Ala Tyr His Asn Ser Val Glu Cys Leu Gln
             50                  55                  60
Met Leu Ile Asn Ala Asp Ser Ser Glu Asn Tyr Ile Lys Met Lys
             65                  70                  75
Thr Phe Glu Gly Phe Cys Ala Leu His Leu Ala Ala Ser Gln Gly
             80                  85                  90
His Trp Lys Ile Val Gln Ile Leu Leu Glu Ala Gly Ala Asp Pro
             95                 100                 105
Asn Ala Thr Thr Leu Glu Glu Thr Thr Pro Leu Phe Leu Ala Val
            110                 115                 120
```

Glu Asn Gly Gln Ile Asp Val Leu Arg Leu Leu Leu Gln His Gly
125 130 135
Ala Asn Val Asn Gly Ser His Ser Met Cys Gly Trp Asn Ser Leu
140 145 150
His Gln Ala Ser Phe Gln Glu Asn Ala Glu Ile Ile Lys Leu Leu
155 160 165
Leu Arg Lys Gly Ala Asn Lys Glu Cys Gln Asp Asp Phe Gly Ile
170 175 180
Thr Pro Leu Phe Val Ala Ala Gln Tyr Gly Lys Leu Glu Ser Leu
185 190 195
Ser Ile Leu Ile Ser Ser Gly Ala Asn Val Asn Cys Gln Ala Leu
200 205 210
Asp Lys Ala Thr Pro Leu Phe Ile Ala Ala Gln Glu Gly His Thr
215 220 225
Lys Cys Val Glu Leu Leu Leu Ser Ser Gly Ala Asp Pro Asp Leu
230 235 240
Tyr Cys Asn Glu Asp Ser Trp Gln Leu Pro Ile His Ala Ala Ala
245 250 255
Gln Met Gly His Thr Lys Ile Leu Asp Leu Leu Ile Pro Leu Thr
260 265 270
Asn Arg Ala Cys Asp Thr Gly Leu Asn Lys Val Ser Pro Val Tyr
275 280 285
Ser Ala Val Phe Gly Gly His Glu Asp Cys Leu Glu Ile Leu Leu
290 295 300
Arg Asn Gly Tyr Ser Pro Asp Ala Gln Ala Cys Leu Val Phe Gly
305 310 315
Phe Ser Ser Pro Val Cys Met Ala Phe Gln Lys Asp Cys Glu Phe
320 325 330
Phe Gly Ile Val Asn Ile Leu Leu Lys Tyr Gly Ala Gln Ile Asn
335 340 345
Glu Leu His Leu Ala Tyr Cys Leu Lys Tyr Glu Lys Phe Ser Ile
350 355 360
Phe Arg Tyr Phe Leu Arg Lys Gly Cys Ser Leu Gly Pro Trp Asn
365 370 375
His Ile Tyr Glu Phe Val Asn His Ala Ile Lys Ala Gln Ala Lys
380 385 390
Tyr Lys Glu Trp Leu Pro His Leu Leu Val Ala Gly Phe Asp Pro
395 400 405
Leu Ile Leu Leu Cys Asn Ser Trp Ile Asp Ser Val Ser Ile Asp
410 415 420
Thr Leu Ile Phe Thr Leu Glu Phe Thr Asn Trp Lys Thr Leu Ala
425 430 435
Pro Ala Val Glu Arg Met Leu Ser Ala Arg Ala Ser Asn Ala Trp
440 445 450
Ile Leu Gln Gln His Ile Ala Thr Val Pro Ser Leu Thr His Leu
455 460 465
Cys Arg Leu Glu Ile Arg Ser Ser Leu Lys Ser Glu Arg Leu Arg
470 475 480
Ser Asp Ser Tyr Ile Ser Gln Leu Pro Leu Pro Arg Ser Leu His
485 490 495
Asn Tyr Leu Leu Tyr Glu Asp Val Leu Arg Met Tyr Glu Val Pro
500 505 510
Glu Leu Ala Ala Ile Gln Asp Gly
515

<210> 10
<211> 1117
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1758450

<400> 10
cacgccttga cagcggcttt caacccccac ctcagcccag caattcggca gtttggagca 60
tgtgaacacc ttgagccttg atgagttcca gtatgtggta tattatgcag agcattcaga 120
gcaaatactc tctctccgag cgcttaatcc gaacaattgc tgccatccgt tccttcccac 180
atgataatgt agaggacctc atcagagggg gagcagatgt gaactgcact catggcacac 240
tgaagccctt gcactgtgcc tgtatggtgt cagatgctga ctgtgtggag ttacttctgg 300
aaaaaggagc cgaggtgaat gccctggatg ggtataaccg aacagccctc cactatgcag 360
cagagaaaga tgaggcttgt gtggaggtcc tattggagta tggtgcaaac cccaatgctt 420
tggatggcaa cagagatacc ccacttcact gggcagcctt taagaacaat gctgagtgtg 480
tgcgggctct cctagagagc ggggcctctg tcaatgccct ggattacaac aatgatacac 540
cgctcagctg ggctgccatg aagggaaatc ttgagagtgt cagcatcctt ctggattatg 600
gcgcagaggt cagagtcatc aacctaatag gccagacacc catctcccgc ctggtggctc 660
tgctagtcag gggacttgga acagagaaag aggactcttg ctttgagctc ctccacagag 720
ctgttggaca ctttgaattg aggaaaaatg gcaccatgcc acgagaggtg gccagagacc 780
cgcagctatg tgaaaaactg actgttctgt gctcagctcc aggaactcta aaaacactcg 840
ctcgctatgc cgtgcgccgt agcctgggac tccagtatct ccccgatgca gtgaagggcc 900
ttccactgcc agcttctttg aaggaatacc tgttactttt agaatagccg gagaagatgt 960
ttgcaccatc gtgcaggcag ctctgggtga ggttgtccct gcagtactcc ttgtcacaga 1020
aaacagaaaa acagttgttt cctgatgtgt gggttataga tttcgaagca acatgtcaca 1080
acaataacct gcatagcaac tccccttccc aaacaaa 1117

<210> 11
<211> 2589
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1834242

<400> 11
cttgaatgaa gctgacacca agaaccgcgg gaagagcttg ggcccaaagc aggaaaggga 60
agcgctcgag ttggggagga accgctgctg tggccgaact caagcccggg cgcccccacc 120
agtttgattg gaagtccagc tgtgaaacct ggagcgtcgc cttctcccca gatggctcct 180
ggtttgcttg gtctcaagga cactgcatcg tcaaactgat cccctggccg ttggaggagc 240
agttcatccc taaagggttt gaagccaaaa gccgaagtag caaaaatgag acgaaagggc 300
ggggcagccc aaaagagaag acgctggact gtggtcagat tgtctggggg ctggccttca 360
gcccgtggcc ttccccaccc agcaggaagc tctgggcacg ccaccacccc caagtgcccg 420
atgtctcttg cctggttctt gctacgggac tcaacgatgg gcagatcaag atctgggagg 480
tgcagacagg gctcctgctt ttgaatcttt ccggccacca agatgtcgtg agagatctga 540
gcttcacacc cagtggcagt ttgattttgg tctccgcgtc acgggataag actcttcgca 600
tctgggacct gaataaacac ggtaaacaga ttcaagtgtt atcgggccac ctgcagtggg 660
tttactgctg ttccatctcc ccagactgca gcatgctgtg ctctgcagct ggagagaagt 720
cggtctttct atggagcatg aggtcctaca cgttaattcg gaagctagag ggccatcaaa 780
gcagtgttgt ctcttgtgac ttctcccccg actctgccct gcttgtcacg gcttcttacg 840
ataccaatgt gattatgtgg gacccctaca ccggcgaaag gctgaggtca ctccaccaca 900
cccaggttga ccccgccatg gatgacagtg acgtccacat tagctcactg agatctgtgt 960

gcttctctcc ggaaggcttg taccttgcca cggtggcaga tgacagactc ctcaggatct 1020
gggccctgga actgaaaact cccattgcat ttgctcctat gaccaatggg ctttgctgca 1080
catttttcc acatggtgga gtcattgcca cagggacaag agatggccac gtccagttct 1140
ggacagctcc tagggtcctg tcctcactga agcacttatg ccggaaagcc cttcgaagtt 1200
tcctaacaac ttaccaagtc ctagcactgc caatccccaa gaaaatgaaa gagttcctca 1260
catacaggac tttttaagca acaccacatc ttgtgcttct ttgtagcagg gtaaatcgtc 1320
ctgtcaaagg gagttgctgg aataatgggc caaacatctg gtcttgcatt gaaatagcat 1380
ttctttggga ttgtgaatag aatgtagcaa aaccagattc cagtgtacta gtcatggatc 1440
tttctctccc tggcatgtga aagtcagtct tagaggaaga gattccactt gcacggcaac 1500
agagccttac gttaaatctt cagtccagtt atgaacagca agtgttgaac tctttctgct 1560
tgttttgatt caaagtgcag ttactgatgt tgttttgatt atgcaactaa gtaggcctcc 1620
agagcctctc tagtggcaga gcagctcaca ctccctccgc tgggaacgat ggcttctgcc 1680
tagtacctat ccttgtgttt ctgatgcagt ggtagcattg gttcaagttc tctcctgctg 1740
tggtcagagt tgcttcgatg ttggccaagt gcttttcttc ttgggctccc ttctgacctg 1800
caggacagtt ttcctggagc catttggtat gaggtattaa tttagcttaa ctaaattaca 1860
ggggactcag aggccgtgct cctgaccgat ccagacacta ttactggctt ttttttttt 1920
tttttaacaa tggtgtgcat gtgcaggaaa tgacaaattt gtatgtcaga ttatacaagg 1980
atgtattctt aaaccgcatg actattcaga tggctactga gttatcagtg gccatttatt 2040
agcatcatat ttatttgtat tttctcaaca gatgttaagg tacaactgtg tttttctcga 2100
ttatctaaaa accatagtac ttaaattgaa cagttgcaaa gatgtcttaa ttgtgtaaag 2160
aattggtgta gtcatgactt tagctgatac tcttatgtac gagatctgtc tctgctgttt 2220
aacttcattg gattaatcag ctggtttcaa ctctactgcg aaacaaaaat agctccttaa 2280
aagtactgtt ctccttcagt ggcatgtagt tatctaatca agacacctca ttcaaacaaa 2340
acctgcctta ggaaaattta atatatttta aattatttta aaagaaatac aacatcttat 2400
tctttagctt tcttaatcgg tgctttatgg aggccagtgt aacgttacat gactcgttga 2460
gaaagttgag gaatttcctc taccaccttt gttgcttgaa gaaaaacatg tcttttcaaa 2520
atgagaggct ttcattgaag aaaagaaaaa aacaacagtt aaaagctaaa aaaaaaaaaa 2580
aaaaaaaaa 2589

<210> 12
<211> 2038
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1849725

<400> 12
cgggaacgcg agcccggtaa tttttcaacg gagaaaggcg aggctttcgg gctctgcaga 60
gtgagagtta gcaagtgtcc ggctccagca actctcctct ggcgtgacag ccggcatgga 120
ggatccacag agtaaagagc ctgccggcga ggccgtggct cccgcgctgc tggagtcgcc 180
gcggccggag ggcggggagg agccgccgcg tcccagtccc gaggaaactc aacagtgtaa 240
atttgatggc caggagacaa aaggatccaa gttcattacc tccagtgcga gtgacttcag 300
tgacccggtt tacaaagaga ttgccattac gaatggctgt attaatagaa tgagtaagga 360
agaactcaga gctaagcttt cagaattcaa gcttgaaact agaggagtaa aggatgttct 420
aaagaagaga ctgaaaaact attataagaa gcagaagctg atgctgaaag agagcaattt 480
tgctgacagt tattatgact acatttgtat tattgacttt gaagccactt gtgaagaagg 540
aaacccacct gagtttgtac atgaaataat tgaatttccg gttgttttac tgaatacgca 600
tactttagaa atagaagaca cgtttcagca gtatgtaaga ccagagatta acacacagct 660
gtctgatttc tgcatcagtc taactggaat tactcaggat caggtagaca gagctgatac 720
cttccctcag gtactaaaaa aagtaattga ctggatgaaa ttgaaggaat taggaacaaa 780
gtataaatac tcacttttaa cagatggttc ttgggatatg agtaagttct tgaacattca 840
gtgtcaactc agcaggctca aataccctcc ttttgcgaaa aagtggatca atattcggaa 900
gtcatatgga aatttttaca aggttcctag aagccaaacc aaactgacaa taatgcttga 960
aaaattagga atggattatg atgggcggcc tcactgtggt cttgatgact ctaagaatat 1020

cgcccgaata gcagttcgaa tgcttcagga tgggtgtgaa ctccgaatca acgagaaaat 1080
gcatgcagga cagctaatga gtgtgtcctc ttccttacca atagagggca ctccaccacc 1140
acaaatgcca cattttagaa agtaacagtt ttgtgtgtgg atcattccaa ttgaagttgc 1200
tatgaagagg tagcagatga atctcattga attagtcctg tagtgcaaac tttaagcacc 1260
ttaaaacatt taaaatctta ttacaggtga tagagataga tacatgtatg tgaacagatt 1320
ttgtaggaag gcatactgaa ttctttgtca ccaagcactt ttgataatgg acaggaatcc 1380
ggtaacctag ataaccaagg tcctggtcta acacaatggg atattttaat aattttaaag 1440
agggggttcc acaggttata aattcccttt ttttgggtgt ttaaaaaaat ggcccaaaaa 1500
tctcctaaat atggggcctt ggtgtctctc ggtttggaaa atgggccaac aaatcccttt 1560
aactcggggg tggtggttta acaaataaat gggtagaaat ggggtggggt tttccccttt 1620
taaatttaaa accatttcca ccttaaggga ttggtaaaca ccccccttaa atccccttta 1680
aaaaaattgg tcccgggaaa aattgggatt tgggggcaaa agggtaagga attcctgtaa 1740
tccctaaagg cctctctttg ggggaatttt tccccagggg gaatatatcc ccttaaggtg 1800
ccccccTttt gtggaatttt tttccccaaa aggggtttat aataaatgtt gggaaaagtt 1860
ttccaccccc aaggggaaat gggtgggggt gggaaaattt tccggtaaaa gaggtgacac 1920
tttggggtag atgacccata aatacttgcg cctcaagggg gtttgcccct attttcaaaa 1980
aactccccta aaaatttggg gggaggagaa ttttatttgg attaggggggg tttatata 2038

<210> 13
<211> 1537
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 2547840

<400> 13
tgggtcggac gcgtgggcgg aaagtgggtc agggccgggc cggcggagcg cgcagcgggg 60
cagccagatt ctttccacca tggccagacg cccccggaac agcagggcct ggcacttcgt 120
cctgagtgca gcccgccgag acgcagatgc ccgggccgtg gctctagcag gctccactaa 180
ctggggctac gactctgatg ggcagcacag cgactcggac tccgaccccg agtactccac 240
gctgccgcca tccatcccca gtgcggtgcc cgtgaccggc gagtccttct gtgactgtgc 300
tgggcagagc gaggcctcct tctgtagcag cctgcactcg gcccaccggg gcagggactg 360
ccgctgcgga gaggaagacg agtatttcga ctgggtctgg gatgacttaa ataagtcatc 420
agccaccctg ctgagctgtg acaaccgtaa ggtcagcttc cacatggagt acagctgcgg 480
cacagcggcc atccggggca ccaaggagct gggggagggc cagcacttct gggagatcaa 540
gatgacctct cccgtctacg gcaccgacat gatggtgggc atcgggacgt cggatgtgga 600
cctggacaaa taccgccaca cgttctgcag cctgctgggc agggatgagg acagctgggg 660
cctctcctac acgggcctcc tccaccacaa gggcgacaag accagcttct cgtcgcggtt 720
cggccagggc tccatcattg gcgtgcacct ggacacctgg cacggcacac tcacctttt 780
caagaacagg aagtgtatag gtgtggcagc caccaagctg cagaacaaga gattctaccc 840
gatggtgtgc tccacggcgg cccggagcag catgaaggtc acccgctcct gtgccagcgc 900
cacttccctc cagtacctgt gctgccaccg cctgcgccag ctgcggccag actcgggaga 960
cacgctggag ggtctgccgc tgccgccggg cctcaagcag gtgctacaca acaagctggg 1020
ctgggtcctg agcatgagtt gcagccgccg caaggctcca gtgtccgatc cccaggcagc 1080
gacctccgcc caccccagca gtcgcgagcc tcggccctgc cagaggaagc gctgccgccg 1140
gacctgactg acttcccagt ggaactgcct tcttgggctg ggacagcccc tttcctctgt 1200
cccttctttc tctgtccctt ccttccagcc acactccagg gcggagttgg atgaggcccg 1260
tccggaggga gccatctctt gctcccgagg ctgggacagt cctttctgtg ggggctctag 1320
ggcccctctg ctgctgtgct gggtggggaa gcggctgccc tgagccccag gtcttgtggg 1380
aggctgcgag gacgagagcc tggctggagc ccgcgttgct gttcccacag ggcctcggtt 1440
tttcctaact tgctctgcat gctgtcagcg gctgccccgc cgtcatagac ttaaaggact 1500
gcaataaatg tagagttgat gtctaacaaa aaaaaaa 1537

<210> 14
<211> 2203
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 3071986

<400> 14
ctgtcttcct ccgcagcgcg aggctgggta cagggtctat tgtctgtggt tgactccgta 60
ctttggtctg aggccttcgg gagctttccc gaggcagtta gcagaagccg cagcggccgc 120
ccccgcccgt ttcctctgtc cctgggcccg ggagggacca acttggcgtc acgcccctca 180
gcggtcgcca ctctcttctc tgttgttggg tccgcatcgt attcccggaa tcagacggtg 240
ccccatagat ggccagcttt cccccgaggg tcaacgagaa agagatcgtg agattacgta 300
ctataggtga acttttagct cctgcagctc cttttgacaa gaaatgtggt cgtgaaaatt 360
ggactgttgc ttttgctcca gatggttcat actttgcttg gtcacaagga catcgcacag 420
taaagcttgt tccgtggtcc cagtgccttc agaactttct cttgcatggc accaagaatg 480
ttaccaattc aagcagttta agattgccaa gacaaaatag tgatggtggt cagaaaaata 540
agcctcgtga acatattata gactgtggag atatagtctg gagtcttgct tttgggtcat 600
cagttccaga aaaacagagt cgctgtgtaa atatagaatg gcatcgcttc agatttggac 660
aagatcagct acttcttgct acagggttga acaatgggcg tatcaaaata tgggatgtat 720
atacaggaaa actcctcctt aacttggtag atcatactga agtggtcaga gatttaactt 780
ttgctccaga tggaagcttg atcctggtgt cagcttcaag agacaaaact ctcagagtat 840
gggacctgaa agatgatgga aacatgatga aagtattgag ggggcatcag aattgggtgt 900
acagctgtgc attctctcct gactcttcta tgctgtgttc agtcggagcc agtaaagcag 960
ttttcctttg gaatatggat aaatacacca tgatacggaa actagaagga catcaccatg 1020
atgtggtagc ttgtgacttt tctcctgatg gagcattact ggctactgca tcttatgata 1080
ctcgagtata tatctgggat ccacataatg gagacattct gatggaattt gggcacctgt 1140
ttcccccacc tactccaata tttgctggag gagcaaatga ccggtgggta cgatctgtat 1200
cttttagcca tgatggactg catgttgcaa gccttgctga tgataaaatg gtgaggttct 1260
ggagaattga tgaggattat ccagtgcaag ttgcaccttt gagcaatggt ctttgctgtg 1320
ccttctctac tgatggcagt gttttagctg ctgggacaca tgacggaagt gtgtattttt 1380
gggccactcc acggcaggtc cctagcctgc aacatttatg tcgcatgtca atccgaagag 1440
tgatgcccac ccaagaagtt caggagctgc cgattccttc caagcttttg gagtttctct 1500
cgtatcgtat ttagaagatt ctgccttccc tagtagtagg gactgacaga atacacttaa 1560
cacaaacctc aagctttact gacttcaatt atctgttttt aaagacgtag aagatttatt 1620
taatttgata tgttcttgta ctgcattttg atcagttgag cttttaaaat attatttata 1680
gacaatagaa gtatttctga acatatcaaa tataaatttt tttaaagatc taactgtgaa 1740
aacatacata cctgtacata tttagatata agctgctata tgttgaatgg acccttttgc 1800
ttttctgatt tttagttctg acatgtatat attgcttcag tagagccaca atatgtatct 1860
ttgctgtaaa gtgcaaggaa attttaaatt ctgggacact gagttagatg gtaaatactg 1920
acttacgaaa gttgaattgg gtgaggcggg caaatcacct gaggtcagca gtttgagact 1980
agcctggcaa acatgatgaa accctgtctc tactaaaaat acaaaaaaaa aaaaaattag 2040
ccaggcgtgg tggtgcacac ctgtagtcct agctacttgg gaggctgagg caggagaatt 2100
gcttgaaccc aggaggtgga ggttgcagta agccaagatc acaccactgc actccaacct 2160
ggacaacaga gcgagactcc atctcaaaaa aaaaataaaa agg 2203

<210> 15
<211> 1622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 3484619

<400> 15
ccgcatggag ccccgggcgg cggacggctg cttcctgggc gacgtgggtt tctgggtgga 60
gcggacccct gtgcacgagg cagcccagcg gggtgagagc ctgcagctgc aacagctgat 120
cgagagcggc gcctgcgtga accaggtcac cgtggactcc atcacgcccc tgcacgcagc 180
cagtctgcag ggccaggcgc ggtgtgtgca gctgctgctg gcggctgggg cccaggtgga 240
tgctcgcaac atcgacggca gcaccccgct ctgcgatgcc tgcgcctcgg gcagcatcga 300
gtgtgtgaag ctcttgctgt cctacggggc caaggtcaac cctcccctgt acacagcgtc 360
ccccctgcac gaggcctgca tgagcgggag ttccgaatgt gtgaggcttc ttattgacgt 420
cggggccaat ctggaagcgc acgattgcca ttttgggacc cctctgcacg ttgcctgtgc 480
ccgggagcat ctggactgtg tcaaagtgct gctcaatgca ggggccaacg tgaatgcggc 540
aaagcttcat gagactgccc ttcaccacgc ggccaaggtc aagaatgttg acctcatcga 600
gatgcttatc gagtttggcg gcaacatcta cgcccgggac aaccgcggga agaagccgtc 660
tgactacacg tggagcagca gcgctcccgc caagtgcttc gagtactacg aaaagacacc 720
tctgactctg tcacagctct gcagggtgaa cttgaggaag gccactggcg tccgagggct 780
ggagaagatt gccaagttaa acatcccgcc ccggctcatt gattacctct cctacaactg 840
aattgcaggt ggggtccgga ccgtgactgc ccccgttgtg cccagcattg cccgggtgag 900
ggctctgcct gttcctctga agcagcgtga ttgctgtaga tagaacaacg ctccttcgag 960
tcccttcctg cgatcctgtt taggcttctc tcctggatcc tggataatgt ttccagggtg 1020
ttgggaaggc ctgcgtctca ggtcacagtt gtgggtgtgg ccctgcgctg ttctacagaa 1080
cctaccctct caatgggcat gggcccaacc atccagtttt cctcttttac ggaccatcct 1140
caaaggcact ctcaggacag acggcgtggg gagcacagag gaggctggca gagctgggga 1200
ctgagggcat tgttgctgat tctcactcac cggggcagcc tgccgcagat gcacaggccc 1260
caggtgcagg ccaccacctc cgggtcggca ccaggactgc cctcggtgct catagggaat 1320
ggctgggccc acggaaggtc ggcctgggat gtggcctggg actgctgctc tgctggctgc 1380
tgtgtggatg cttttcctgg agcactttcc aaggcatccc ccagccccaa gcctgcgcgc 1440
atctgtcact cagggacttt ctatgggtct ttgtgggggа aggccctggc tttgtattcc 1500
cacaagtagc actgagtttc ttaggaaatt tgtcttcagt attaagtctc caactcttgt 1560
aaaaagttta tatgtaggat aaaaaccttt tagaggacac gtaggcggta ccactaaggt 1620
tt 1622

<210> 16
<211> 1385
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1275743

<400> 16
cgcaacgggc gcaggtgcgg ggcgcgggct ctctcacgcc gcggcctcac ccggcggtgc 60
ttcggcaggc ggccggcgcg gggcgcaggc ggcgcggcca tgggctcgca gggcagtccg 120
gtgaagagct acgactacct gctcaagttc ctgctggtgg gcgacagcga cgtgggcaag 180
ggcgagatcc tggagagcct gcaggacggc gcggcagagt ccccgtacgc ctacagtaac 240
gggatcgact acaagaccac caccatcctg ctggacggcc ggcgcgtgaa gctggagctc 300
tgggacacgt cgggccaggg ccggttctgc accatcttca ggtcctactc caggggcgct 360
caggggatcc tcttggtgta tgacatcacc aaccgctggt cctttgacgg catcgaccgc 420
tggatcaagg agatcgatga gcatgcaccc ggagtccccc ggatcttggt tggaaaccgg 480
ctgcacctgg ccttcaagcg gcaggtcccg acggagcagg cccgcgcgta cgcagagaag 540
aactgcatga ccttctttga ggtcagcccc ctgtgcaact tcaacgtcat cgagtccttc 600
acggagctat cccgcatcgt gctcatgcgg cacggcatgg agaagatctg gaggcccaac 660
cgagtgttca gcctgcagga cctctgctgc cgggccatcg tctcctgcac ccccgtgcac 720
ctcatcgaca agcttccact gcccgtcacc atcaagagcc acctcaagtc cttctcgatg 780
gccaacggca tgaacgcggt catgatgcac ggccgttcct actccctggc cagcggggcc 840
gggggcggcg gcagcaaggg caacagcctc aagaggtcca agtccatccg tccaccccag 900
agccccccc agaactgctc gcggagtaac tgcaagatct cctagcgggg atgggcgggg 960

ccgcctgtgc agatgccagg agggctcgag ctggacactc ctggctggac gccaggccag 1020
tgccgcctac gtggagactg tccacacagc tgcctcagaa gcgccgggct ttcctcacac 1080
ctgagccggg tgcgaggagg agcatgcacg gaccaagcgc ggcaggcggg aggaggggc 1140
gcggctgggc tgctggtgct tccgggaatc ttggtcggaa acaagccggg cctccccagc 1200
tgcctgggct tgaccggcgg ggagcctggt tggcctttct tatttatata gagaacactt 1260
cacttttttg tacattttta aggggccttc agggaagcct gggtgtggcc cggtggtggt 1320
gcactggtga cttcatggcc acgccagctg cggggacgca cttgggactc ctcgagaggg 1380
gactc 1385

<210> 17
<211> 2790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1722533

<400> 17
cccggaggaa cggaaggcag gattgcagct tcctcagtgc aacctccaaa caggaaatct 60
gagatgtata acatcttata gtttggcttg tcaacgttgg tcatgcggtg.gccccaaaat 120
aaactccctg cttcaaagga cagcgtttca gaactgcctg gcagagcagc cagaagcttg 180
gggccagggc agaaggaaaa ctcggggagc atgttctgaa ttaagacact ttcaagaaaa 240
tcctttgtat taccccctgaa ttgtaccctt gtttcagagc ctaacagggt tttctgattt 300
gctgttccct cctccccact gggtgtctgt tctggaggcc agggtgagag gtggaggagg 360
atggccacgc agatcagcac tcggggcagc cagtgtacca ttgggcagga ggagtacagc 420
ctgtacagca gcctgagcga ggatgaactg gtgcagatgg ccatcgagca gagcctagcg 480
gacaagacaa ggggcccaac cactgctgag gccaccgcgt ctgcatgtac caaccgccaa 540
cctgcccatt tctacccatg gaccaggtcc actgcacctc ctgagagttc gccggcccgg 600
gccccaatgg gcttgttcca aggggtcatg cagaaataca gcagcagctt gttcaagacc 660
tcccagctgg cgcctgcgga ccccttgata aaggccatca aggatggcga tgaagaggcc 720
ttgaagacca tgatcaagga agggaagaat ctcgcagagc ccaacaagga gggctggctg 780
ccgctgcacg aggccgcata ctatggccag gtgggctgcc tgaaagtcct gcagcgagcg 840
tacccaggga ccatcgacca gcgcaccctg caggaggaaa cagccgttta cttggcaacg 900
tgcaggggcc acctggactg tctcctgtca ctgctccaag caggggcaga gccggacatc 960
tccaacaaat cccgagagac accgctctac aaagcctgtg agcgcaagaa cgcggaggcc 1020
gtgaagattc tggtgcagca caacgcagac accaaccacc gctgcaaccg cggctggacc 1080
gctctgcacg agtctgtgtc tcgcaatgac ctggaggtca tgcagatcct ggtgagcgga 1140
ggagccaagg tggaatccaa gaacgcctac ggcatcaccc ccttgttcgt ggccgcccag 1200
agtggacagt tggaggcctt gaggttctta gccaagtacg gtgctgacat caacacgcag 1260
gccagcgaca acgcgtctgc cctctacgag gcctgcaaga atgagcatga ggaggtggtg 1320
gagtttctgc tgtcacaggg tgccgacgcc aacaagacca acaaggacgg cttgctcccg 1380
ctgcacatcg cctccaagaa gggcaactac aggatcgtgc agatgctgct gccggtgacc 1440
agccgcacgc gcatacgccg tagcggcgtc agtccgctgc acctggcggc cgagcgcaac 1500
cacgacgagg tgctggaggc gctgctgagc gcgcgcttcg acgtgaacac gccgctggcg 1560
cccgaacgcg cgcgcctcta cgaagaccgg cgcacgtccg cgctgtactt cgcggtggtc 1620
aacaacaacg tgtacgccac cgagctgctg ctgcaacacg gcgccgaccc caaccgcgac 1680
gtcatcagcc ccttgctcgt ggccatccgc cacggctgcc tgcgcacaat gcagctgctg 1740
ctggaccacg gcgcgaacat cgacgcctat atcgccacgc accccaccgc cttccccgcc 1800
accatcatgt tcgccatgaa gtgcctgtcg ctgctcaagt tcctcatgga cctgggctgc 1860
gacggcgagc cctgcttctc atgcctctac ggcaacggcc cgcacccgcc ggccccgcag 1920
ccctccagca ggttcaacga cgcgcccgcg gccgacaagg agcccagcgt ggtgcagttc 1980
tgtgagttcg tatctgcccc agaggtgagc cgctgggcgg ggcccatcat cgatgtcctc 2040
ctggactacg tgggcaacgt gcagctctgc tcgcggctga aggaacacat cgacagcttt 2100

gaggactggg ccgtcatcaa ggagaaggca gaacctccaa gacctctggc tcacctttgc 2160
cgactgcggg ttcgaaaggc cattgggaaa taccgtataa aactcctaga caccttgccg 2220
ctcccaggca ggctgattag atacctgaaa tacgagaaca cccagtaact ggggccacgg 2280
ggagagagga gtagcccctc agactcttct tactaagtct caggacgtcg gtgttcccaa 2340
ctccaagggg acctggtgac agacgaggct gcaggctgcc tccctctcag cctggacagc 2400
taccaggatc tcactgggtc tcagggccca gagctttggc cagagcagag aacagaatgt 2460
gtcaaggaga agaatcattt gtttacaaac tgatgagcag atcccagacc ttctctacct 2520
tcaggaatgg cagaaacctc tattcctggg gccagggcag agcttgaggt gttctgggga 2580
aggtggtgct cagagccttc cctgtgcccc tccacttgtt ctggaaaact caccacttga 2640
cttcagagct ttctctccaa agactaagat gaagacgtgg cccaaggtag ggggtagggg 2700
gagcctgggt cttggagggc tttgttaagt attaatataa taaatgttac acatgtgaca 2760
cctgcccagt gaaaaactaa aaaaaaaaaa 2790

<210> 18
<211> 2263
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte clone 1759763

<400> 18
cggaccgtcc gcctacgggg gccgggacgt cgcctgcgcg tctctcgttt tcggacggct 60
gcagcatcgc ggtggggatc gaaagcgggg gcttctggga cgcagctctg gagacgcggc 120
ctcggaccag ccatttcggt gtagaagtgg cagcacggca gactggtcaa acaaatggat 180
tttacagagg cttacgcgga cacgtgctct acagttggac ttgctgccag ggaaggcaat 240
gttaaagtct taaggaaact gctcaaaaag ggccgaagtg tcgatgttgc tgataacagg 300
ggatggatgc caattcatga agcagcttat cacaactctg tagaatgttt gcaaatgtta 360
attaatgcag attcatctga aaactacatt aagatgaaga cctttgaagg tttctgtgct 420
ttgcatctcg ctgcaagtca aggacattgg aaaatcgtac agattctttt agaagctggg 480
gcagatccta atgcaactac tttagaagaa acgacaccat tgtttttagc tgttgaaaat 540
ggacagatag atgtgttaag gctgttgctt caacacggag caaatgttaa tggatcccat 600
tctatgtgtg gatggaactc cttgcaccag gcttcttttc aggaaaatgc tgagatcata 660
aaattgcttc ttagaaaagg agcaaacaag gaatgccagg atgactttgg aatcacacct 720
ttatttgtgg ctgctcagta tggcaagcta gaaagcttga gcatacttat ttcatcaggt 780
gcaaatgtca attgtcaagc cttggacaaa gctacaccct tgttcattgc tgctcaagag 840
ggacacacaa aatgtgtgga gcttttgctc tccagtgggg cagatcctga tctttactgt 900
aatgaggaca gttggcagtt acctattcat gcagctgcac aaatgggcca tacaaaaatc 960
ttggacttgt taataccact tactaaccgg gcctgtgaca ctgggctaaa caaagtaagc 1020
cctgtttact cagcagtgtt tgggggacat gaagattgcc tagaaatatt actccggaat 1080
ggctacagcc cagacgccca ggcgtgcctt gtttttggat tcagttctcc tgtgtgcatg 1140
gctttccaaa aggactgtga gttctttgga attgtgaaca ttcttttgaa atatggagcc 1200
cagataaatg aacttcattt ggcatactgc ctgaagtacg agaagttttc gatatttcgc 1260
tacttttga ggaaaggttg ctcattggga ccatggaacc atatatatga atttgtaaat 1320
catgcaatta aagcacaagc aaaatataag gagtggttgc cacatcttct ggttgctgga 1380
tttgacccac tgattctact gtgcaattct tggattgact cagtcagcat tgacaccctt 1440
atcttcactt tggagtttac taattggaag acacttgcac cagctgttga aaggatgctc 1500
tctgctcgtg cctcaaacgc ttggattcta cagcaacata ttgccactgt tccatccctg 1560
acccatcttt gtcgtttgga aattcggtcc agtctaaaat cagaacgtct acggtctgac 1620
agttatatta gtcagctgcc acttcccaga agcctacata attatttgct ctatgaagac 1680
gttctgagga tgtatgaagt tccagaactg gcagctattc aagatggata aatcagtgaa 1740
actacttaac acagctaatt tttttctctg aaaaatcatc gagacaaaag agccacagag 1800
tacaagtttt tatgatttta tagtcaaaag atgattattg attgtcagat aggttaggtt 1860
ttgggggggcc agtagttcag tgagaatgtt tatgtttaca actagccttc ccagtaaaaa 1920
aaaaaaaaaa aaaaaaaaaa aattgtaaac atcacttata ttactttatt gcagcttcat 1980

caccagtaca ttatatgttg taatatttat ttacctgatc attttgatca ttttctgctt 2040
tattttgcta ataaactgtg atgttacttc tagtgctaaa catggcatat ttccacctat 2100
gattcgtgtt tacctggtat taggagctca gaatggaatg cataaagctt cactggaagt 2160
gtatacaact gtggtgtaga atctgttatt attatcatta ttattttatt tagacttgac 2220
tatctcttat gtttattaaa gaacatgttt tcctaaaaaa aaa 2263